

Abstract of the Disclosure

Self-Supporting Pneumatic Tire

A self-supporting pneumatic tire is molded in such a manner that ride comfort is improved, durability is increased, and a greater run-flat capability can be achieved. The self-supporting run-flat tire is molded such that the molded bead base width is equal or less than the rim width of the intended rim upon which the tire is to be mounted. By molding the tire with a bead width less than or equal to the rim width, the sidewall inserts are not subjected to additional stress during and after inflation of the tire and the strain energy is more evenly distributed through the sidewall pillar construction.